WHAT IS CLAIMED IS:

- 1. Aplate-making method of a lithographic printing plate which comprises the steps of exposure of a photosensitive lithographic printing plate having the acid value of a photosensitive layer of 1.0 meq/g or less with a laser beam, and then development with a developing solution having a pH value of 13.0 or less at a developing speed in an unexposed domain of 0.05 μm/s or more and at an osmotic speed of a developing solution in an exposed domain of 0.1 μm/s or less.
- 2. Aplate-making method of a lithographic printing plate which comprises the steps of exposure of a photosensitive lithographic printing plate having the acid value of a photosensitive layer of 1.0 meq/g or less with a laser beam, and then development with a developing solution having a pH value of 13.0 or less so as to dissolve the photosensitive layer in order from the surface without swelling and peeling of the photosensitive layer.
- 3. A developing solution for a photosensitive lithographic printing plate which is a non-silicate-based developing solution and contains an inorganic alkali agent and a nonionic compound represented by the following formula (I):

A-W (I)

wherein A represents a hydrophobic organic group having 1.5 or more of logP of A-H, and W represents a hydrophilic organic

group having less than 1.0 of logP of W-H.

- 4. The developing solution for a photosensitive lithographic printing plate as claimed in claim 3, which contains a chelating agent to a divalent metal.
- 5. The developing solution for a photosensitive lithographic printing plate as claimed in claim 3, which has a pH of from 10.0 to 12.5 and electrical conductance of from 3 to 30 mS/cm.
- 6. The developing solution for a photosensitive lithographic printing plate as claimed in claim 3, which contains a carbonic acid or a carbonate.
- 7. The plate-making method of a lithographic printing plate as claimed in claim 1, wherein the photosensitive lithographic printing plate is a photopolymerizable lithographic printing plate having on a support a photopolymerizable photosensitive layer containing the following i) and ii) as essential components:
- i) a compound having an addition polymerizable ethylenically unsaturated bond,
 - ii) a photopolymerization initiator.
- 8. The plate-making method of a lithographic printing plate as claimed in claim 2, wherein the photosensitive lithographic printing plate is a photopolymerizable lithographic printing plate having on a support a photopolymerizable photosensitive layer containing the following

- i) and ii) as essential components:
- i) a compound having an addition polymerizable ethylenically unsaturated bond,
 - ii) a photopolymerization initiator.
- 9. The plate-making method of a lithographic printing plate as claimed in claim 7, wherein the photopolymerizable photosensitive layer contains a titanocene-based initiator or a colorant such as a pigment.
- 10. The plate-making method of a lithographic printing plate as claimed in claim 8, wherein the photopolymerizable photosensitive layer contains a titanocene-based initiator or a colorant such as a pigment.
- 11. The plate-making method of a lithographic printing plate as claimed in claim 7, wherein the support is an anodized aluminum support containing an organic compound having a phosphorus-containing atomic group on the surface of the support.
- 12. The plate-making method of a lithographic printing plate as claimed in claim 8, wherein the support is an anodized aluminum support containing an organic compound having a phosphorus-containing atomic group on the surface of the support.
- 13. A photosensitive lithographic printing plate comprising a photopolymerizable photosensitive layer, wherein the photosensitive layer contains a compound having an acid radical having a pKa of 9 or less and the acid value of the photosensitive layer is from 0.20 to 0.60 meg/g.

14. A plate-making method of a lithographic printing plate which comprises the steps of exposure of a photosensitive lithographic printing plate comprising a support having an anodized film on the surface having provided thereon a photopolymerizable photosensitive layer containing a compound having an addition polymerizable ethylenically unsaturated double bond, a high polymer soluble or swelling in an alkali aqueous solution, and a photopolymerization initiator with a laser beam, and then development with a developing solution comprising an alkali aqueous solution containing at least one of a nonionic aromatic ether-based activator represented by the following formula (I-A) and a nonionic aromatic ether-based activator represented by the following formula (I-B):

$$R_1 = O(CH_2CH_2O)_n(CH_2CH(CH_3)O)_mH$$
 (I-A)

$$H_2 = \frac{1}{1} O(CH_2CH_2O)_n(CH_2CH(CH_3)O)_mH$$
 (I-B)

wherein R_1 and R_2 each represents H or an alkyl group having from 1 to 100 carbon atoms, and n and m each represents an integer of from 0 to 100.

15. A plate-making method of a lithographic printing plate which comprises the steps of image exposure of a photosensitive lithographic printing plate comprising an aluminum support having provided thereon a photopolymerizable photosensitive layer containing a compound having an ethylenically unsaturated double bond, a photopolymerization initiator and a high polymer binder, and then development with a developing solution containing an inorganic alkali agent and a nonionic surfactant having a polyoxyalkylene ether group, having a pH of from 10.0 to 12.5, and an electrical conductance of from 3 to 30 mS/cm.